

TABLE 7. PROPOSED FIELD PROGRAM FOR SOIL INVESTIGATION

Sample Location	Sample Medium	Rationale	No. of Sample Locations	Sample IDs	Sampling Tool	Sampling Depth (ft bgs)	Analyses													
							Field Screening by XRF	Field Screening by PID	VOCs (includes EDB)	PAHs	SVOCs	TPH	TAL Metals	Lead	Mercury	Cyanide	Hexavalent Chromium (10%)	Pesticides (5%)	PCBs (5%)	Dioxins/Furans (5%)
Confirmation of ROST LIF Technology Results and Investigation of Unassessed Areas																				
Lorraine Process Area (LPA)	Surface soil	To confirm ROST LIF technology results	11	LPA-SB-01 -0.5 through LPA-SB-11 -0.5	Split spoon Continuous sampler PVC/acetate sleeve	0.0 - 0.5	NA	Yes	11	11	11	11	11	0	11	11	1	1	1	1
			11	LPA-SB-01 -2.0 through LPA-SB-11 -2.0		0.5 - 2.0	NA	Yes	11	11	11	11	11	0	11	11	0	0	0	0
	Subsurface soil		11	LPA-SB-01 -6.0 through WPA-SB-11 -6.0		2.0 -6.0	NA	Yes	11	11	11	11	11	0	11	11	0	0	0	0
			11	LPA-SB-01 -10.0 through LPA-SB-11 -10.0		6.0 - 10.0	NA	Yes	11	11	11	11	11	0	11	11	0	0	0	0
			11	LPA-SB-01 -?? through LPA-SB-11 -??		2 ft interval above refusal	NA	Yes	11	11	11	11	11	0	11	11	0	0	0	0
Lorraine Process Area (LPA) Cooling Pond	Surface soil	To determine if cooling pond is a source area	3	LPA-SB-12-0.5 through LPA-SB-14 -0.5	Split spoon Continuous sampler PVC/acetate sleeve	0.0 - 0.5	NA	Yes	3	3	3	3	3	0	3	3	3	1	1	1
			3	LPA-SB-12 -2.0 through LPA-SB-14 -2.0		0.5 - 2.0	NA	Yes	3	3	3	3	3	0	3	3	3	0	0	0
	Subsurface soil		3	LPA-SB-12-6.0 through WPA-SB-14 -6.0		2.0 -6.0	NA	Yes	3	3	3	3	3	0	3	3	3	0	0	0
			3	LPA-SB-12 -10.0 through LPA-SB-14 -10.0		6.0 - 10.0	NA	Yes	3	3	3	3	3	0	3	3	3	0	0	0
			3	LPA-SB-12-?? through LPA-SB-14 -??		2 ft interval above refusal	NA	Yes	3	3	3	3	3	0	3	3	3	0	0	0
Wilcox Process Area (WPA)	Surface soil	To confirm ROST LIF technology results and to assess other potential source areas	28	WPA-SB-01 -0.5 through WPA-SB-28 -0.5	Split spoon Continuous sampler PVC/acetate sleeve	0.0 - 0.5	NA	Yes	28	28	28	28	28	0	28	28	3	2	2	2
			28	WPA-SB-01 -2.0 through WPA-SB-28 -2.0		0.5 - 2.0	NA	Yes	28	28	28	28	28	0	28	28	0	0	0	0
	Subsurface soil		28	WPA-SB-01 -6.0 through WPA-SB-28 -6.0		2.0 -6.0	NA	Yes	28	28	28	28	28	0	28	28	0	0	0	0
			28	WPA-SB-01 -10.0 through WPA-SB-28 -10.0		6.0 - 10.0	NA	Yes	28	28	28	28	28	0	28	28	0	0	0	0
			28	WPA-SB-01 -?? through WPA-SB-28 -??		2 ft interval above refusal	NA	Yes	28	28	28	28	28	0	28	28	0	0	0	0
East Tank Farm (ETF)	Surface soil	To confirm ROST LIF technology results and to assess other potential source areas	23	ETF-SB-01 -0.5 through ETF-SB-23 -0.5	Split spoon Continuous sampler PVC/acetate sleeve	0.0 - 0.5	NA	Yes	23	23	23	23	23	0	23	23	2	1	1	1
			23	ETF-SB-01 -2.0 through ETF-SB-23 -2.0		0.5 - 2.0	NA	Yes	23	23	23	23	23	0	23	23	0	0	0	0
	Subsurface soil		23	ETF-SB-01 -6.0 through ETF-SB-23 -6.0		2.0 -6.0	NA	Yes	23	23	23	23	23	0	23	23	0	0	0	0
			23	ETF-SB-01 -10.0 through ETF-SB-23 -10.0		6.0 - 10.0	NA	Yes	23	23	23	23	23	0	23	23	0	0	0	0
			23	ETF-SB-01 -?? through ETF-SB-23 -??		2 ft interval above refusal	NA	Yes	23	23	23	23	23	0	23	23	0	0	0	0
East Tank Farm (ETF) Tanks 1 and 4	Surface soil	To determine if this is a source area	10	ETF-SB-24 -0.5 through ETF-SB-33 -0.5	Split spoon Continuous sampler PVC/acetate sleeve	0.0 - 0.5	NA	Yes	10	10	10	10	10	0	10	10	1	1	1	1
	Surface soil		10	ETF-SB-24 -2.0 through ETF-SB-33 -2.0		0.5 - 2.0	NA	Yes	10	10	10	10	10	0	10	10	0	0	0	0
North Tank Farm (NTF)	Surface soil	To determine if there are sources in this area	19	NTF-SB-01 -0.5 through NTF-SB-19 -0.5	Split spoon Continuous sampler PVC/acetate sleeve	0.0 - 0.5	NA	Yes	19	19	19	19	19	0	19	19	1	1	1	1
			19	NTF-SB-01 -2.0 through NTF-SB-19 -2.0		0.5 - 2.0	NA	Yes	19	19	19	19	19	0	19	19	0	0	0	0
	Subsurface soil		19	NTF-SB-01 -6.0 through NTF-SB-19 -6.0		2.0 -6.0	NA	Yes	19	19	19	19	19	0	19	19	0	0	0	0
			19	NTF-SB-01 -10.0 through NTF-SB-19 -10.0		6.0 - 10.0	NA	Yes	19	19	19	19	19	0	19	19	0	0	0	0
			19	NTF-SB-01 -?? through NTF-SB-19 -??		2 ft interval above refusal	NA	Yes	19	19	19	19	19	0	19	19	0	0	0	0

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							Field Screening by XRF	Field Screening by PID	VOCs (includes EDB)	PAHs	SVOCs	TPH	TAL Metals	Lead	Mercury	Cyanide	Hexavalent Chromium (10%)	Pesticides (5%)	PCBs (5%)	Dioxins/Furans (5%)
Delineation of Nature and Extent of Contamination (prescribed borings after ROST LIF screening results are confirmed to be usable; completed during Mobilization 2)																				
Lorraine Process Area (LPA)	Surface soil		11	LPA-SB-15-0.5 through LPA-SB-25 -0.5	Split spoon Continuous sampler PVC/acetate sleeve	0.0 - 0.5	NA	Yes	11	11	11	11	11	0	11	11	1	1	1	1
	Surface soil		11	LPA-SB-15 -2.0 through LPA-SB-25 -2.0		0.5 - 2.0	NA	Yes	11	11	11	11	11	0	11	11	0	0	0	0
	Subsurface soil		11	LPA-SB-15-6.0 through WPA-SB-25 -6.0		2.0 -6.0	NA	Yes	11	11	11	11	11	0	11	11	0	0	0	0
	Subsurface soil		11	LPA-SB-15-10.0 through LPA-SB-25 -10.0		6.0 - 10.0	NA	Yes	11	11	11	11	11	0	11	11	0	0	0	0
	Subsurface soil		11	LPA-SB-15-?? through LPA-SB-25 -??		2 ft interval above refusal	NA	Yes	11	11	11	11	11	0	11	11	0	0	0	0
Wilcox Process Area (WPA)	Surface soil	To delineate nature and extent of sources in these areas	20	WPA-SB-29 -0.5 through WPA-SB-48 -0.5	Split spoon Continuous sampler PVC/acetate sleeve	0.0 - 0.5	NA	Yes	20	20	20	20	20	0	20	20	3	2	2	2
			20	WPA-SB-28 -2.0 through WPA-SB-48 -2.0		0.5 - 2.0	NA	Yes	20	20	20	20	20	0	20	20	0	0	0	0
			20	WPA-SB-28 -6.0 through WPA-SB-48 -6.0		2.0 -6.0	NA	Yes	20	20	20	20	20	0	20	20	0	0	0	0
	20		WPA-SB-28 -10.0 through WPA-SB-48 -10.0	6.0 - 10.0		NA	Yes	20	20	20	20	20	0	20	20	0	0	0	0	
	Subsurface soil		20	WPA-SB-28 -?? through WPA-SB-48 -??		2 ft interval above refusal	NA	Yes	20	20	20	20	20	0	20	20	0	0	0	0
East Tank Farm (ETF)	Surface soil		26	ETF-SB-34-0.5 through ETF-SB-59 -0.5	Split spoon Continuous sampler PVC/acetate sleeve	0.0 - 0.5	NA	Yes	26	26	26	26	26	0	26	26	3	2	2	2
	Surface soil		26	ETF-SB-34 -2.0 through ETF-SB-59 -2.0		0.5 - 2.0	NA	Yes	26	26	26	26	26	0	26	26	0	0	0	0
	Subsurface soil		26	ETF-SB-34 -6.0 through ETF-SB-59 -6.0		2.0 -6.0	NA	Yes	26	26	26	26	26	0	26	26	0	0	0	0
	Subsurface soil		26	ETF-SB-34 -10.0 through ETF-SB-59 -10.0		6.0 - 10.0	NA	Yes	26	26	26	26	26	0	26	26	0	0	0	0
	Subsurface soil		26	ETF-SB-34 -?? through ETF-SB-59 -??		2 ft interval above refusal	NA	Yes	26	26	26	26	26	0	26	26	0	0	0	0
Delineation of Nature and Extent of Contamination for Residential Use in Areas Outside of those Delineated by Soil Borings (Mobilization 2 or 3)																				
Randomly selected - to be determined	Surface soil	To assess areas between known tank locations in the East Tank Farm	40		Split spoon Continuous sampler PVC/acetate sleeve	0.0 - 0.5	NA	Yes	40	40	40	40	40	0	40	40	40	40	40	40
	Surface soil		40			0.5 - 2.0	NA	Yes	40	40	40	40	40	0	40	40	40	40	40	40
Judgmental - to be determined	Surface soil		50			0.0 - 0.5	NA	Yes	25	25	25	25	25	0	25	25	25	25	25	25
	Surface soil		50	To be determined		0.5 - 2.0	NA	Yes	25	25	25	25	25	0	25	25	25	25	25	25
Soil Sampling in Drainage Pathways																				
Drainage 1 - PPE1	Surface soil	1 at PPE1	1	DR1-01-0.5		0.0 - 0.5	NA	Yes	1	1	1	1	1	0	1	1	0	0	0	0
	Surface soil	2 on Branch 1a	2	DR1-02-0.5 through DR1-03-0.5		0.0 - 0.5	NA	Yes	3	3	3	3	3	0	3	3	0	0	0	0
	Surface soil	2 on Branch 1b	2	DR1-04-0.5, DR1-05-0.5		0.0 - 0.5	NA	Yes	2	2	2	2	2	0	2	2	0	0	0	0
Drainage 2 - PPE2	Surface soil	1 at PPE2	1	DR2-01-0.5		0.0 - 0.5	NA	Yes	1	1	1	1	1	0	1	1	0	0	0	0
	Surface soil	3 along drainage pathway	3	DR2-02-0.5 through DR2-04-0.5		0.0 - 0.5	NA	Yes	3	3	3	3	3	0	3	3	0	0	0	0
Drainage 3 - PPE3	Surface soil	1 at PPE3	1	DR3-01-0.5		0.0 - 0.5	NA	Yes	1	1	1	1	1	0	1	1	0	1	1	1
	Surface soil	2 along drainage pathway	2	DR3-02-0.5 and DR3-03-0.5		0.0 - 0.5	NA	Yes	2	2	2	2	2	0	2	2	0	0	0	0
Drainage 4 - PPE4	Surface soil	1 at PPE4	1	DR4-01-0.5		0.0 - 0.5	NA	Yes	1	1	1	1	1	0	1	1	0	0	0	0
	Surface soil	2 along drainage pathway	2	DR4-02-0.5 and DR4-03-0.5		0.0 - 0.5	NA	Yes	2	2	2	2	2	0	2	2	0	0	0	0
Drainage 5 - PPE5	Surface soil	1 at PPE5	1	DR5-01-0.5		0.0 - 0.5	NA	Yes	1	1	1	1	1	0	1	1	0	0	0	0
	Surface soil	3 along drainage pathway	3	DR5-02-0.5 through DR5-04-0.5		0.0 - 0.5	NA	Yes	3	3	3	3	3	0	3	3	0	0	0	0
Contingency	Surface soil	If deemed necessary by site conditions	5	To be determined	Hand auger PVC/acetate sleeve	0.0 - 0.5	NA	Yes	5	5	5	5	5	0	5	5	0	0	0	0
Soil Sampling Beneath Waste Not Associated with ROST LIF Locations																				
East Tank Farm Oil Pit/Pond Tank 10 Spill Area Loading Dock Spill North Tank Farm Tank	Surface soil	Beneath each waste sample, to be collected every 100 ft of similar waste	8	ETF-W-SB-01-1.0 through ETF-W-SB-04-1.0 LD-W-SB-01-1.0 through ETF-W-SB-03-1.0 NTE-W-SB-01-1.0		0.0 - 1.0	NA	Yes	8	8	8	8	8	0	8	8	1	1	1	1
	Surface soil		8	ETF-W-SB-01-2.0 through ETF-W-SB-04-2.0 LD-W-SB-01-2.0 through LD-W-SB-03-2.0 NTE-W-SB-01-2.0		1.0 - 2.0	NA	Yes	8	8	8	8	8	0	8	8	0	1	1	1

